

Appl. No. 09/642,203
Amdt. dated November 24, 2004
Reply to Office Action of August 25, 2004

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently Amended): For use in a communication network including a switching center in communication with at least one alternative system, an Intelligent Peripheral (IP), and a plurality of subscribers, each subscriber having at least one Directory Number (DN), a method for conditionally forwarding a call, comprising:

providing a service location register in communication with the switching center, the service location register operative to retrieve stored called termination parameters for each of the subscriber's DNs, and call information for each incoming call to a DN, the call termination parameters including call forwarding features;

detecting a busy or no answer condition for a call to a DN;

forwarding a request to the service location register for routing

instructions; and

applying service logic to determine a disposition for the call, wherein applying service logic to determine a disposition for the call comprises determining whether the call was routed via the IP and processing the call according to the determination.

~~applying service logic to forward the call to a Direct Inward Dialing (DID) number of a resource on the IP; and~~

~~applying service logic to disconnect the call or route the call to the at least one alternative system, wherein applying service logic to disconnect the call or route the call to the at least one alternative system comprises examining a source of the call and processing the call accordingly.~~

2. (Original): A method as in claim 1, wherein the switching system is a Mobile Switching System (MSC).

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3. (Original): A method as in claim 1, wherein the service location register is a Wireless Service Location Register (WSLR™).

4. (Original): A method as in claim 1, wherein the step of applying service logic includes determining based on the calling party Directory Number if the call is a business or a personal call.

5. (Original): A method as in claim 4, wherein the call is forwarded to a first alternative system if the call is a business call and the call is forwarded to a second alternative system if the call is a personal call.

6. (Original): A method as in claim 1, wherein the step of applying service logic includes determining if the calling party directory number has been restricted.

7. (Original): A method as in claim 6, wherein the call is forwarded to the at least one alternative system only if the calling party directory number is unrestricted.

8. (Original): A method as in claim 1, wherein the step of applying service logic includes determining the time of day the call was placed.

9. (Original): A method as in claim 1, wherein the step of applying service logic includes determining the day of the week the call was placed.

10. (Original): A method as in claim 1, wherein the step of applying service logic includes determining the date the call was placed.

11. (Original): A method as in claim 1, wherein the at least one alternative system comprises a Voice Messaging System.

12. (Currently Amended): For use in a wireless communication network including a switching center in communication with at least one voice messaging system, an Intelligent Peripheral (IP), and a plurality of subscribers, each subscriber having at least one Directory Number (DN), a method for conditionally forwarding a call, comprising:

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providing a Wireless Service Location Register (WSLR™) in communication with the switching center, the WSLR™ operative to retrieve stored called termination parameters for each of the subscriber's DNs, and call information for each incoming call to a DN, the call termination parameters including call forwarding features;

detecting a busy or no answer condition for a call to a DN;

forwarding a request to the WSLR™ for routing instructions; and

applying service logic to determine a disposition for the call, wherein applying service logic to determine a disposition for the call comprises determining whether the call was routed via the IP and processing the call according to the determination.

~~applying service logic to forward the call to a Direct Inward Dialing (DID) number of a resource on the IP; and~~

~~applying service logic to disconnect the call or route the call to the at least one voice messaging system.~~

13. (Original): A method as in claim 12, wherein the switching system is a Mobile Switching System (MSC).

14. (Original): A method as in claim 12, wherein the step of applying service logic includes determining based on the calling party Directory Number if the call is a business or a personal call.

15. (Original): A method as in claim 14, wherein the call is forwarded to a first voice messaging system if the call is a business call and the call is forwarded to a second voice messaging system if the call is a personal call.

16. (Original): A method as in claim 12, wherein the step of applying service logic includes determining if the calling party directory number has been restricted.

17. (Original): A method as in claim 16, wherein the call is forwarded to the at least one voice messaging system only if the calling party directory number is unrestricted.

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18. (Original): A method as in claim 12, wherein the step of applying service logic includes determining the time of day the call was placed.

19. (Original): A method as in claim 12, wherein the step of applying service logic includes determining the day of the week the call was placed.

20. (Original): A method as in claim 12, wherein the step of applying service logic includes determining the date the call was placed.

21. (Original): For use in a communication network including at least one alternative system, an Intelligent Peripheral (IP), and a plurality of subscribers, each subscriber having at least one Directory Number (DN), a system for conditionally forwarding a call, comprising:

a switching center in communication with the at least one alternative system, the switching center operative to detect a busy or no answer condition for a call to a DN and forward a request for routing instructions; and

a service location register in communication with the switching center, the service location register operative to retrieve stored call termination parameters for each of the subscriber DN's, and call information for each incoming call to a DN, the call termination parameters including call forwarding features, the service location register further operative to apply service logic to receive the request for routing instructions from the switching center, and applying service logic to determine a disposition for the call, wherein applying service logic to determine a disposition for the call comprises determining whether the call was routed via the IP and processing the call according to the determination.~~apply service logic to forward the call to a Direct Inward Dialing (DID) number of a resource on the IP and apply service logic to disconnect the call or route the call to the at least one alternative system, wherein applying service logic to disconnect the call or route the call to the at least one alternative system comprises examining a source of the call and processing the call accordingly.~~

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22. (Original): A system as in claim 21, wherein the switching center is a Mobile Switching Center (MSC).

23. (Original): A system as in claim 21, wherein the at least one alternative system is a voice Messaging System (VMS).

24. (Original): A system as in claim 21, wherein the service location register is a Wireless Service Location Register.

25. (Previously Presented): A method of processing a call directed to a subscriber having single number service and at least one mobile directory number, the method comprising:

- receiving a call directed to the subscriber;
- applying service logic to determine that the subscriber has single number service;
- directing the call to a plurality of directory numbers of the subscriber, one of which plurality of directory numbers is the subscriber's mobile directory number;
- receiving either a busy or a no-answer indication from a mobile device of the subscriber relating to the mobile directory number; and
- processing the call to the mobile directory number by terminating the call instead of transferring the call to a voice mail system of the subscriber.

26. (Previously Presented): The method of claim 25, further comprising:

- receiving a call directed to the mobile directory number of the subscriber;
- receiving either a busy or a no-answer indication from the mobile device of the subscriber relating to the mobile directory number; and
- processing the call to the mobile directory number by transferring the call to a voice mail system of the subscriber.